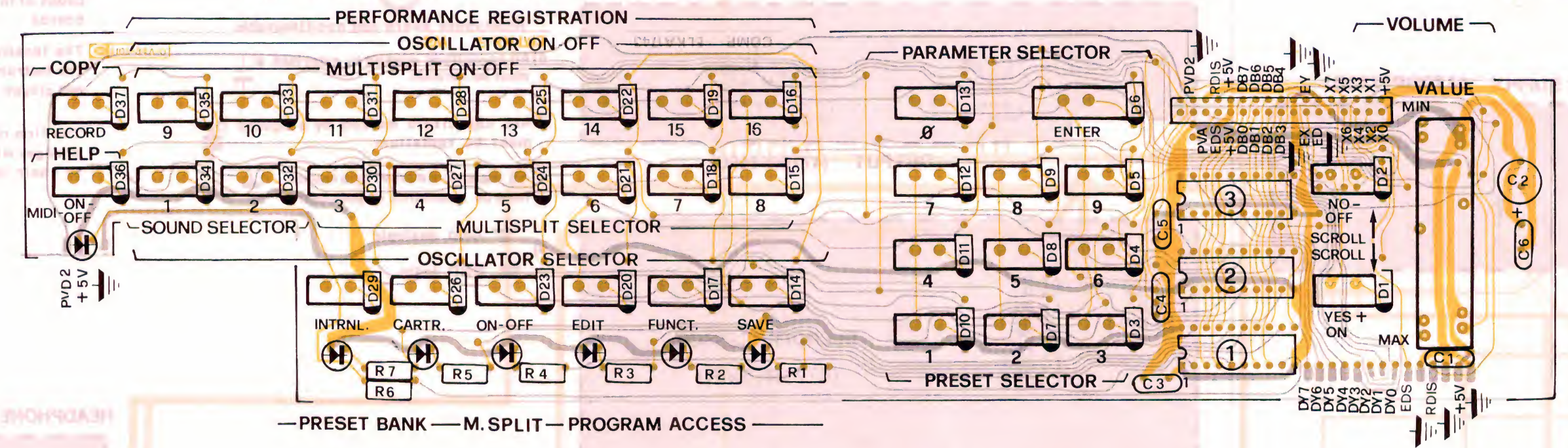


WIRING CONNECTION DIAGRAM

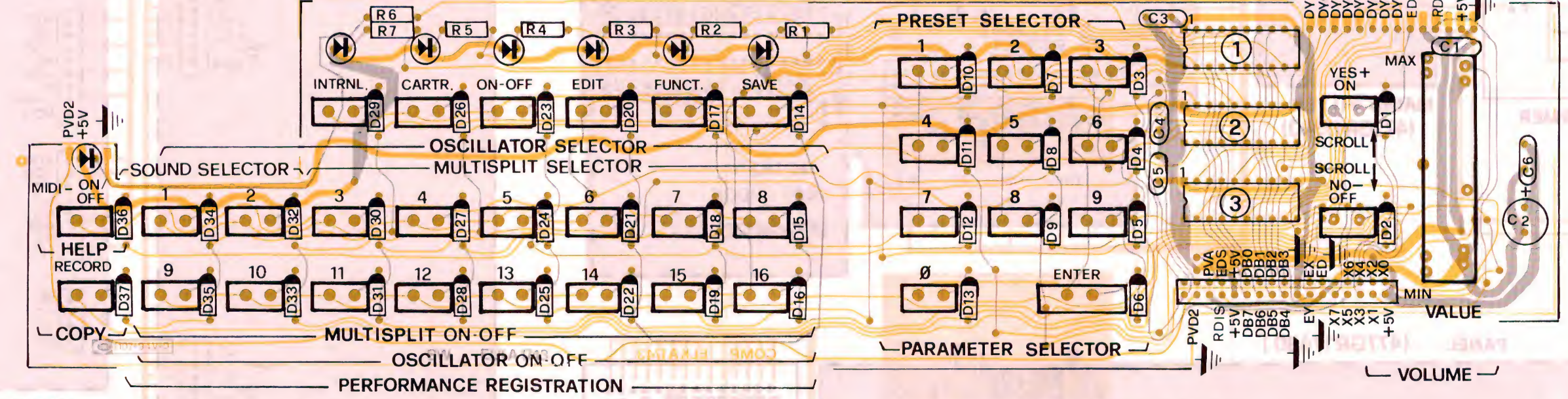
410CST1743

COMPONENTS SIDE

(477GR17430)



— PRESET BANK — M.SPLIT — PROGRAM ACCESS —



410CST1743

SWITCH SIDE

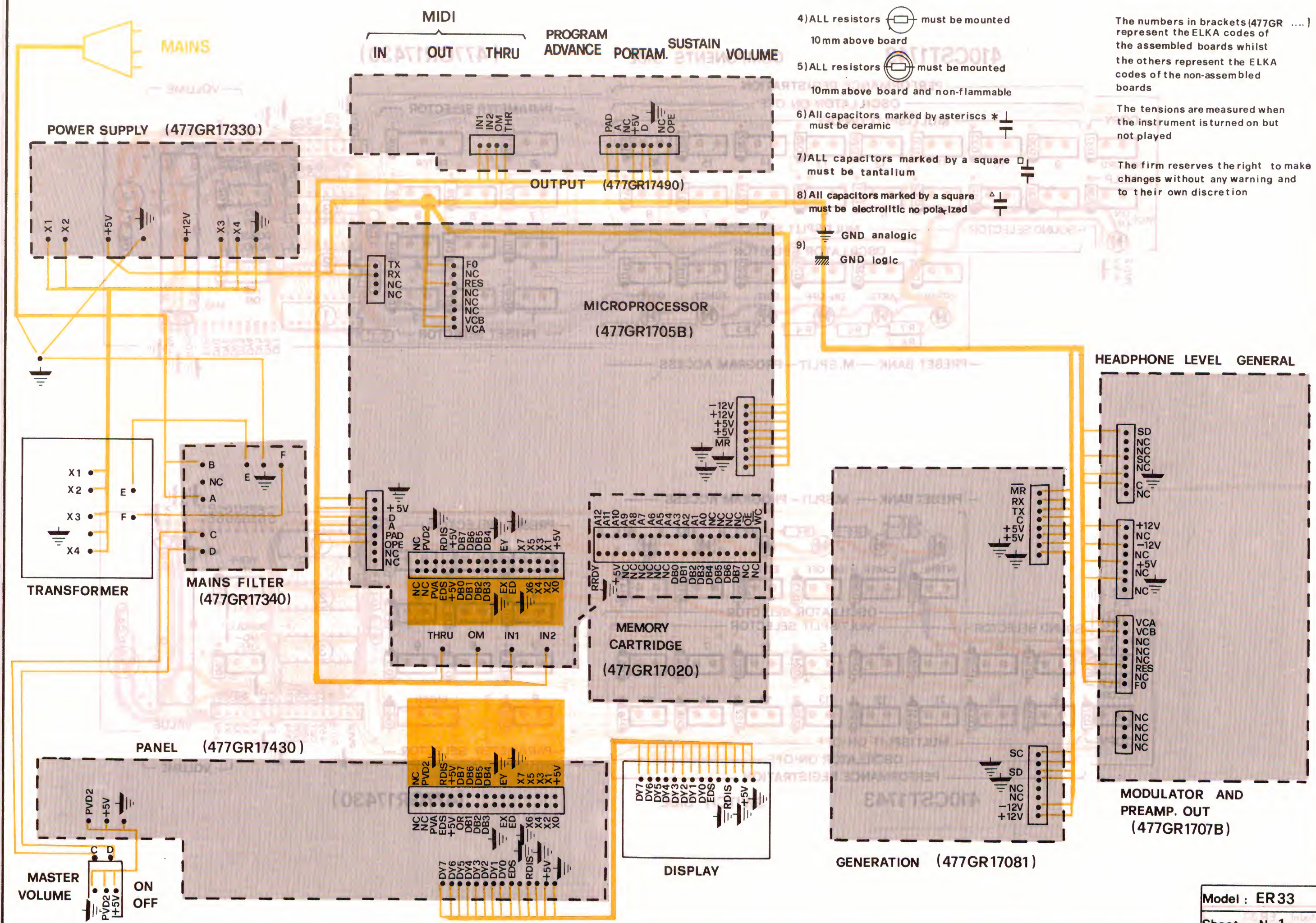
(477GR17430)

Designed by

Drawn by

Viboli Kren

WIRING CONNECTION DIAGRAM



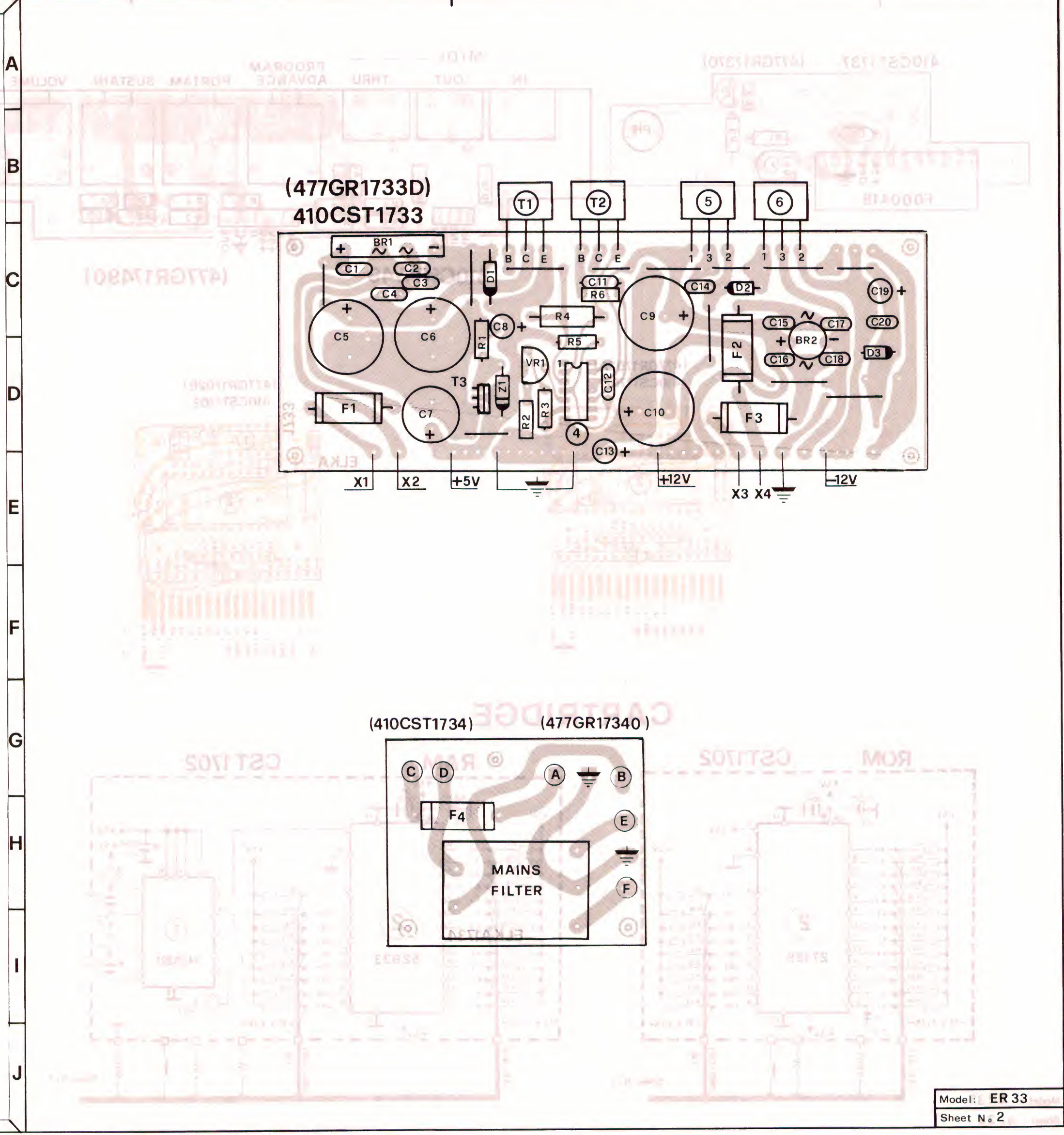
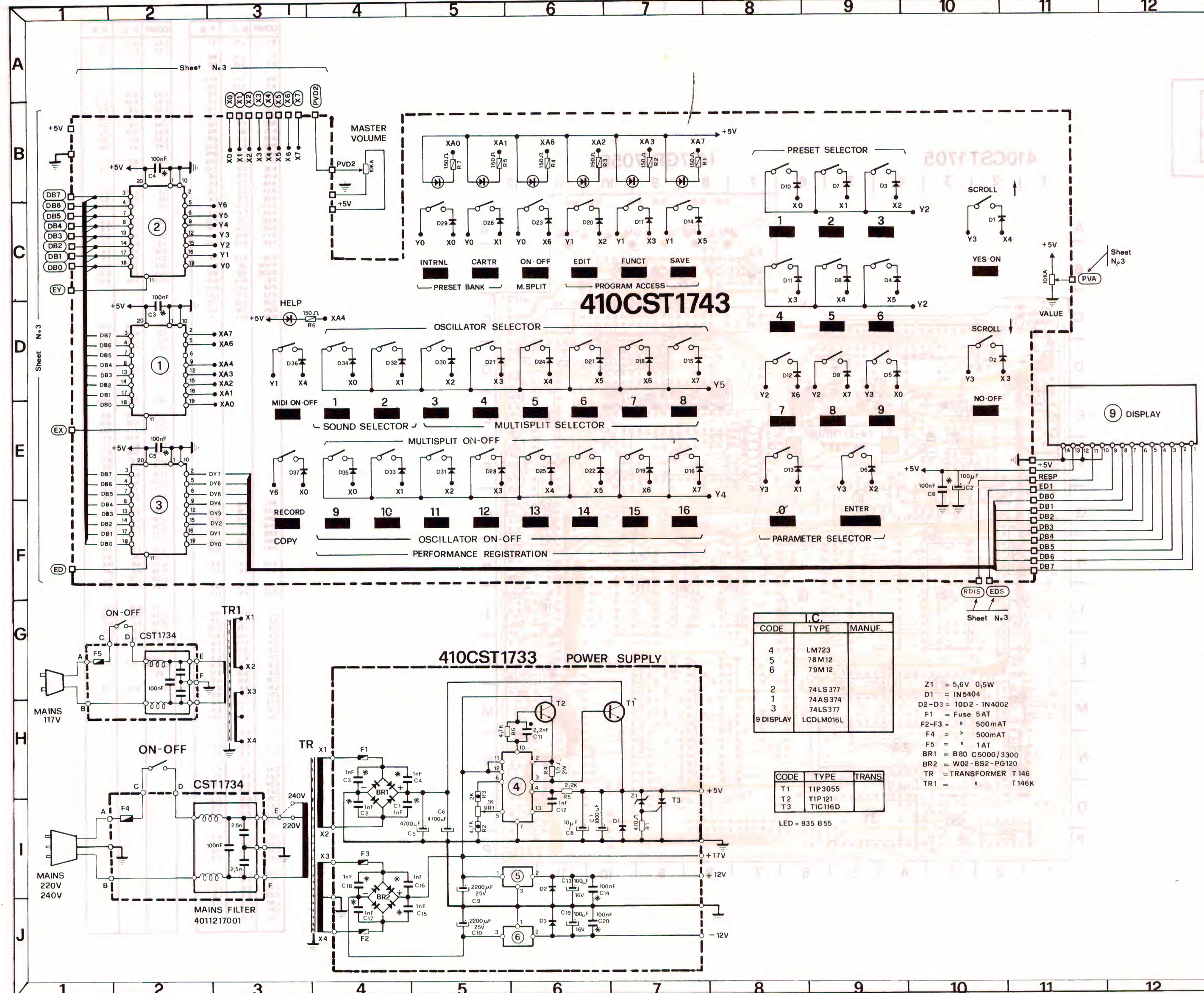
- 1) ALL resistors \square are carbon film $\frac{1}{4}w$ 5%
2) ALL resistors marked by a point \square must be metal film 2%
3) ALL capacitors marked by a point \square must be plastic film 2%
- 4) ALL resistors \square must be mounted 10mm above board
- 5) ALL resistors \square must be mounted 10mm above board and non-flammable
- 6) All capacitors marked by asterisks * must be ceramic
- 7) ALL capacitors marked by a square \square must be tantalum
- 8) All capacitors marked by a square \square must be electrolytic no polarized
- 9) \square GND analogic
 \square GND logic

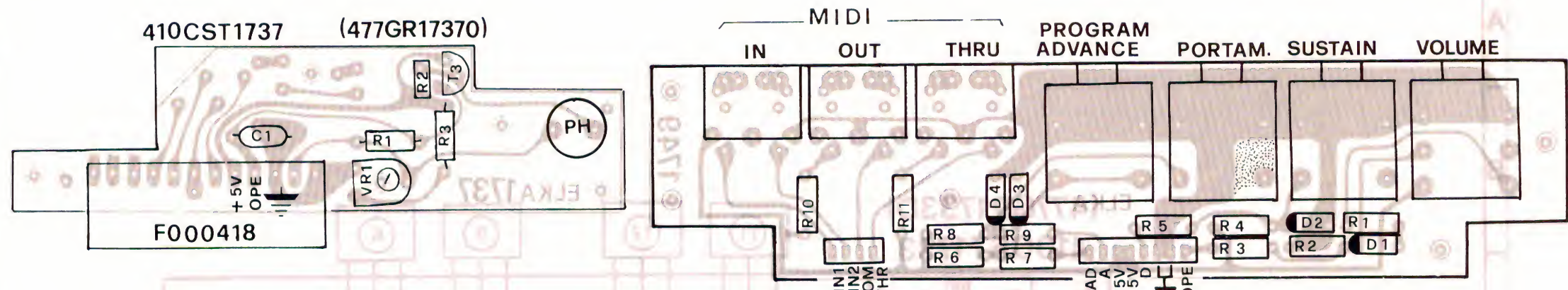
ALL diodes are:
FDH 9439 Fairchild
or 125 ITT
or BA 130
or 2pF

The numbers in brackets (477GR) represent the ELKA codes of the assembled boards whilst the others represent the ELKA codes of the non-assembled boards

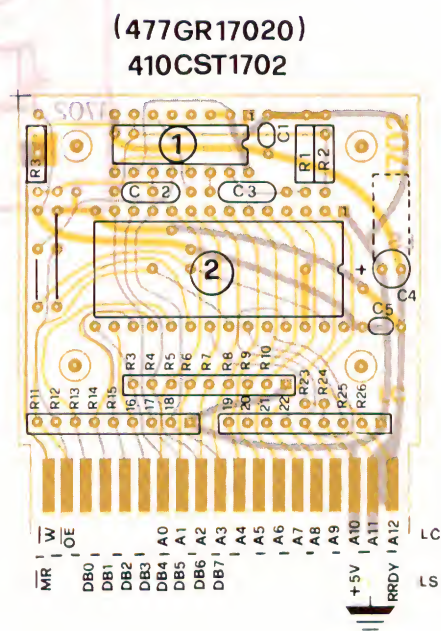
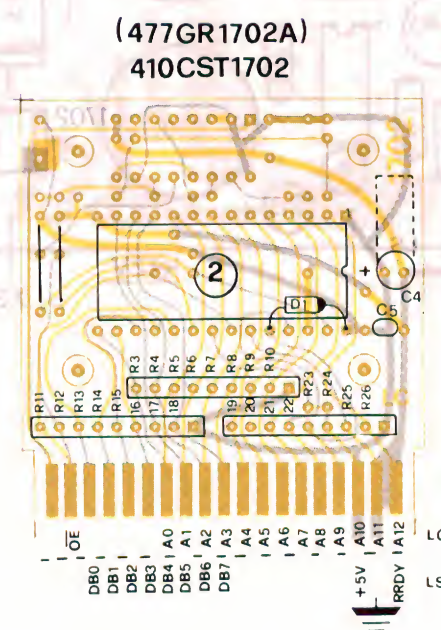
The tensions are measured when the instrument is turned on but not played

The firm reserves the right to make changes without any warning and to their own discretion

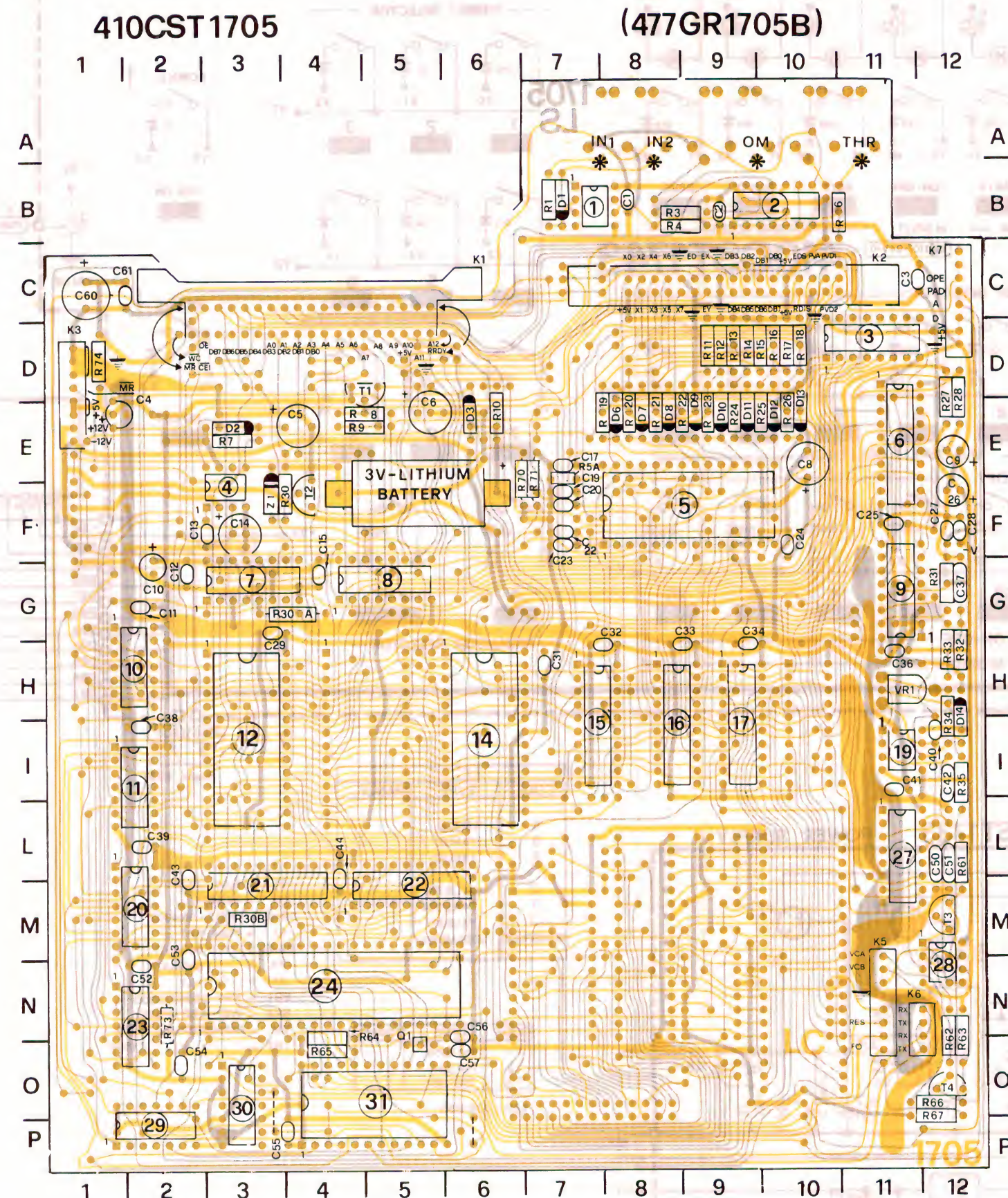
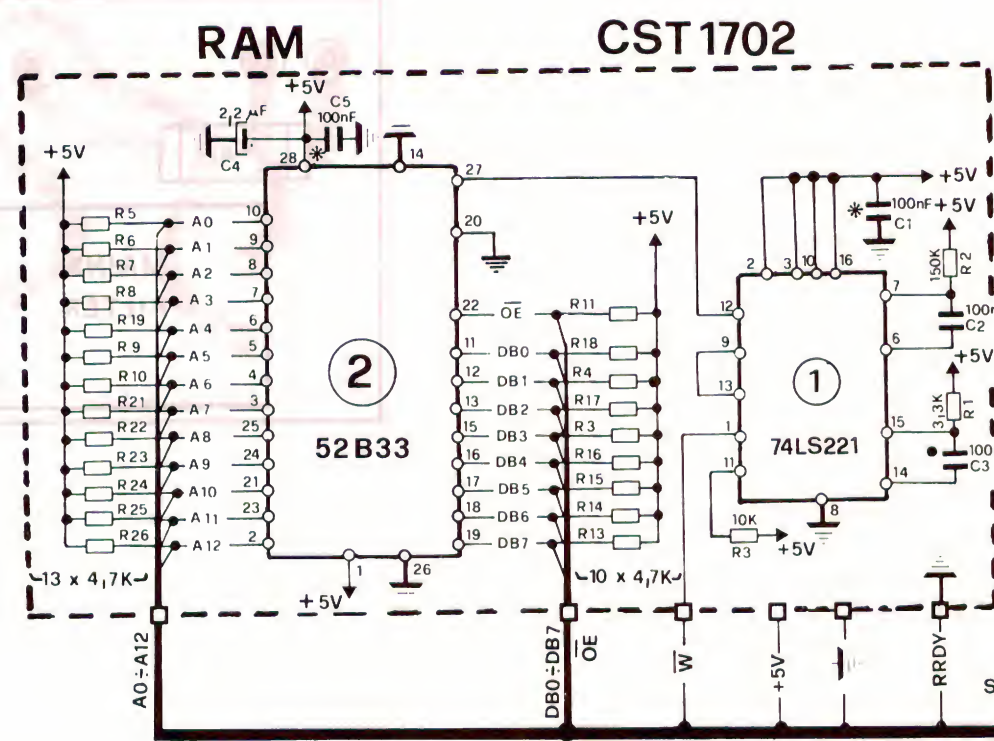
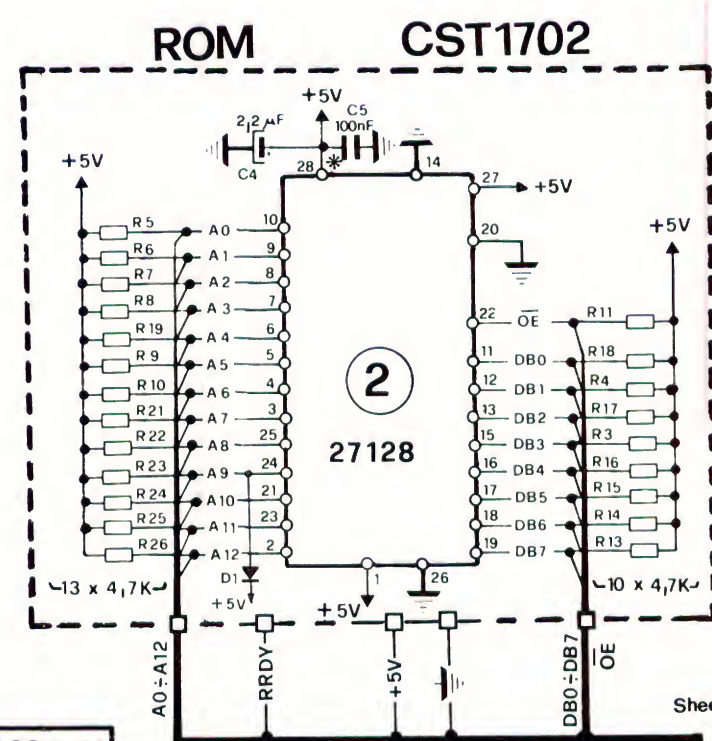




410CST1749 (477GR17490)

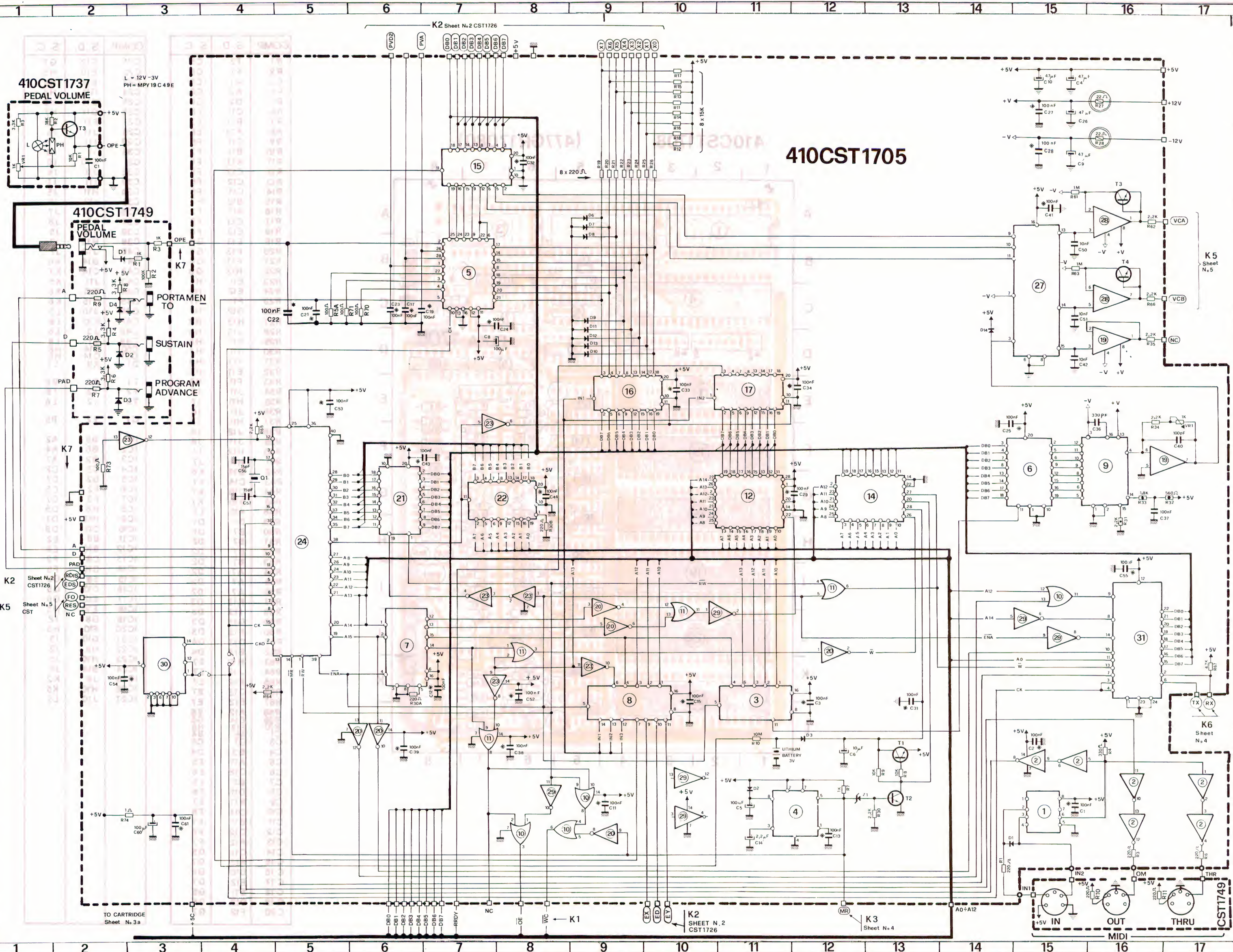


CARTRIDGE



COMP.	S. D.	P. B.
R1	L15	B7
R3	L16	B9
R4	K16	B9
R6	L17	B11
R7	K12	E3
R8	K13	E5
R9	K13	E5
R10	J11	E6
R11	C9	D9
R12	C9	D9
R13	B9	D9
R14	C9	D9
R15	B9	D10
R16	C9	D10
R17	B9	D10
R18	C9	D10
R19	C9	E8
R20	C9	E8
R21	C9	E8
R22	C9	E9
R23	C10	E9
R24	C9	E9
R25	C9	E10
R26	C10	E10
R27	B16	E12
R28	B16	E12
R30	K13	F4
R30A	J6	G4
R30B	H8	M3
R31	G16	G12
R32	G17	H12
R33	G16	H12
R34	F16	I12
R35	E16	I12
R36	D13	L7

COMP.	S. D.	P. B.
C43	G7	L2
C44	G8	L4
C50	D15	L12
C51	E15	L12
C52	J8	N2
C53	F5	N2
C54	J2	O2
C55	H16	P3
C56	G4	N6
C57	G4	O6
C60	K5	C1
C61	K5	C2
D1	L14	B7
D2	K11	E3
D3	J12	E6
D6	C9	E8
D7	C9	E8
D8	D9	E8
D9	D9	E9
D10	E9	E9
D11	E9	E9
D12	E9	E10
D13	E9	E10
D14	E14	K12
T1	K13	D5
T2	K13	F4
T3	C16	O12
T4	D16	M12
Q1	G4	O5
VR1	F17	H11
IC1	K15	B8
IC2	K16	B10
IC3	J11	D11
IC4	K12	F3
IC5	D7	F9
IC6	G15	E11
IC7	I6	G3
IC8	J9	G5
IC9	G16	G11
IC10	K9	H2
IC11	I8	I2
IC12	G11	I3
IC14	G13	I6
IC15	C7	I7
IC16	F9	I8
IC17	F11	I9
IC19	E16	I11
IC20	J6	M2
IC21	G6	M3
IC22	G8	M5
IC23	C10	N2
IC24	H5	N4
IC27	D15	L11
IC28	D16	N12
IC29	K8	P2
IC30	I3	O3
IC31	I16	O4
LITHIUM BATTERY 3V	K17	H11
Z1	K12	F3



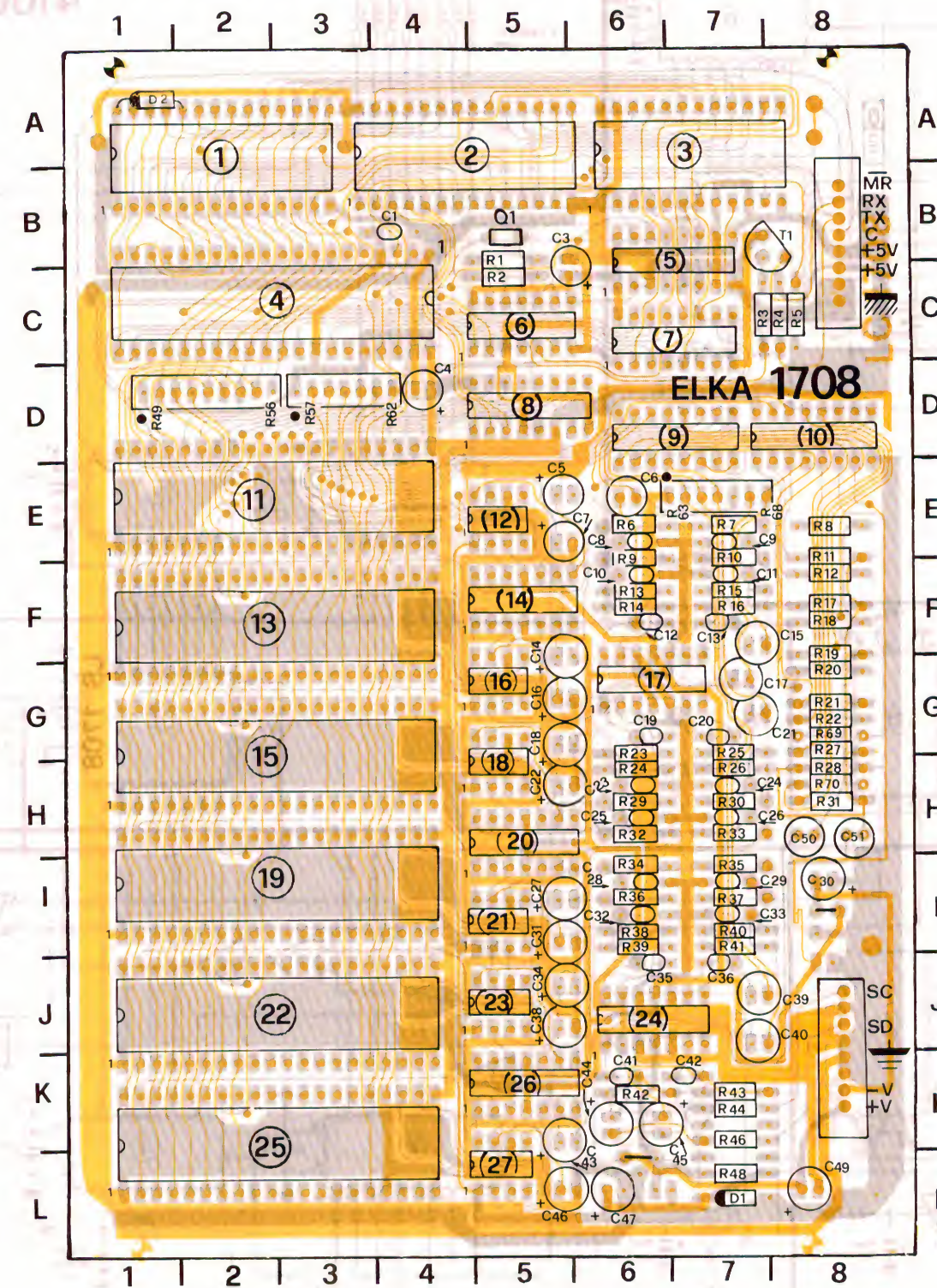
410CST1705

I. C. 1705		
CODE	TYPE	MANUF.
1	6N138	
2	7404	
20	74S04	
3-7-8	74S138	
4	7705	
5	ADC809	
6-15	74LS377	
10-11	74S32	
12	TMS27256	
14	6264-5585	
16-17	74LS374	
19-28	TL082	
21	74LS245	
22	74LS373	
24	TMS7001	
27	4051	
30	74LS90	
31	68B50	
9	DAC0808	
23-29	74LS04	

CODE	TYPE	TRANS.
T1	PNP	BC415C
T2-T4	NPN	BC173C

Q1 = QUARTZ 4MHZ
Z1 = ZENER 3.9VZ

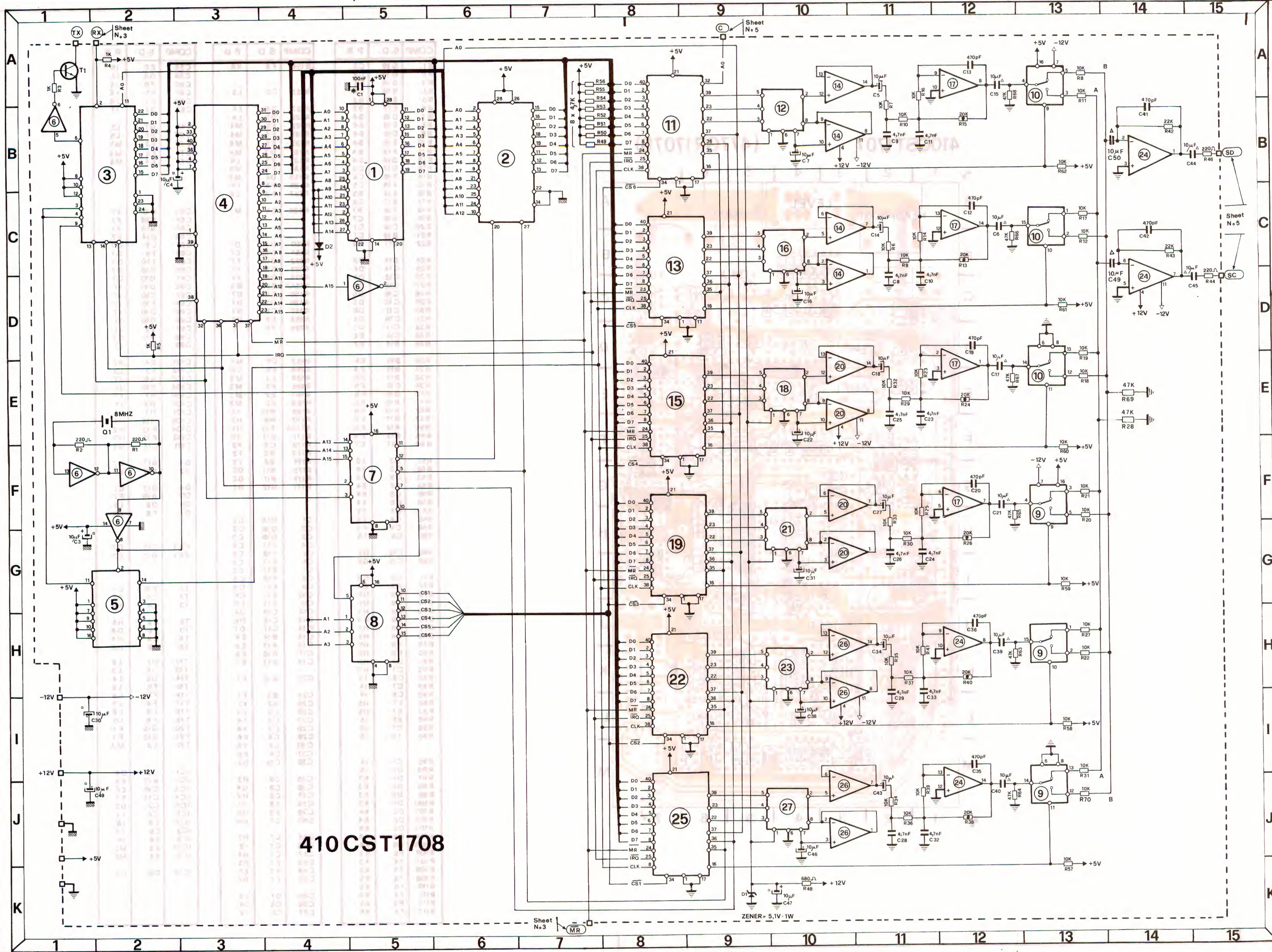
410CST1708 (477GR17080)



COMP.	S. D.	S. C.
R1	F2	C5
R2	F1	C5
R3	A1	C8
R4	A2	C8
R5	D2	C8
R6	C11	E6
R7	B11	E7
R8	A13	E8
R9	C11	F6
R10	B11	F7
R11	A13	F8
R12	C13	F8
R13	C12	F6
R14	C11	F6
R15	B12	F7
R16	A11	F7
R17	C13	F8
R18	E13	F8
R19	E13	G8
R20	F13	G8
R21	F13	G8
R22	H13	G8
R23	E11	H6
R24	E12	H6
R25	F11	H7
R26	G12	H7
R27	H13	H8
R28	J13	H8
R29	E11	H6
R30	G11	H7
R31	I13	H8
R32	E11	H6
R33	F11	H7
R34	J11	I6
R35	H11	I7
R36	J11	I6
R37	H11	I7
R38	J12	I6
R39	J11	J6
R40	H12	I7
R41	H11	J7
R42	B14	K6
R43	C14	K7
R44	D15	K7
R46	B15	K7
R48	K10	L7
R49	B7	D1
R50	B7	D1
R51	B7	D2
R52	B7	D2
R53	B7	D2
R54	A7	D2
R55	A7	D2
R56	A7	D2
R57	K13	D3
R58	I13	D3
R59	G13	D3
R60	F13	D3
R61	D13	D4
R62	B13	D4
R63	H12	E7
R64	J12	E7
R65	F12	E7
R66	C12	E7
R67	E12	E7
R68	A12	E8
R69	E14	G8
R70	E14	H8
C1	A5	B4
C3	G1	C6
C4	B3	D4
C5	A11	E5
C6	C12	E6
C7	B2	E5
C8	D11	E6
C9	B11	E7
C10	D11	F6
C11	B11	F7
C12	C12	F6
C13	A12	F7
C14	C11	G5
C15	A12	G7
C16	D10	G5
C17	E12	G7
C18	E11	G5
C19	D12	G6
C20	F12	G7

COMP.	S. D.	S. C.
C21	F12	G7
C22	E10	H5
C23	E11	H6
C24	G11	H7
C25	E11	H6
C26	G11	H7
C27	F11	I5
C28	J11	I6
C29	I11	I7
C30	I1	I8
C31	G10	I5
C32	J11	I6
C33	I11	I7
C34	H11	J5
C35	I12	J6
C36	H12	J7
C37	I3	J8
C38	I10	J5
C39	H12	J7
C40	J12	J7
C41	B14	K6
C42	C14	K7
C43	J11	K5
C44	B15	K6
C45	D15	K6
C46	J10	L5
C47	K10	L6
C48	J3	L6
C49	J1	L8
C50	B14	H8
C51	C14	H8
D1	K9	L7
T1	A1	B8
T2	I2	I8
T3	I2	L6
Q1	E2	B5
IC1	B5	A2
IC2	B6	A4
IC3	B2	A7
IC4	C3	C2
IC5	G2	C7
IC6	F2	C5
IC7	F5	C7
IC8	H5	D5
IC9	H13	D7
IC10	C13	D8
IC11	B8	E2
IC12	B10	E5
IC13	C8	F2
IC14	C10	F5
IC15	E8	G2
IC16	C10	G5
IC17	E12	G6
IC18	E10	H5
IC19	G8	I2
IC20	F10	H5
IC21	G10	I5
IC22	H8	J2
IC23	H10	J5
IC24	B14	J6
IC25	J8	K2
IC26	H10	K5
IC27	J10	L5

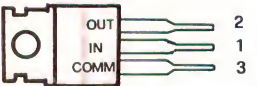
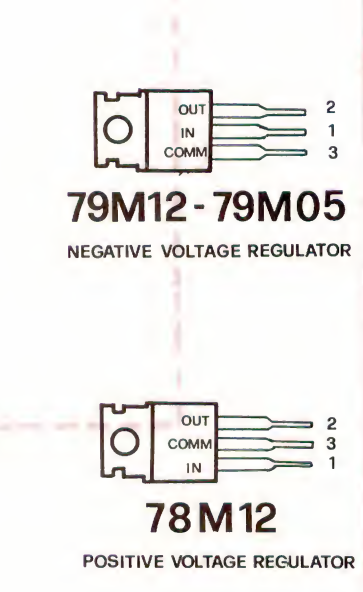
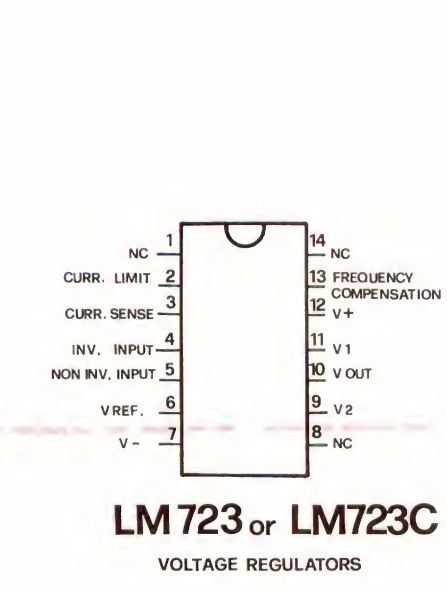
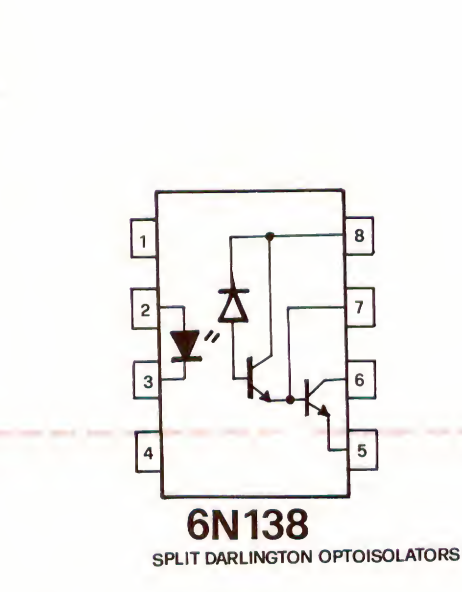
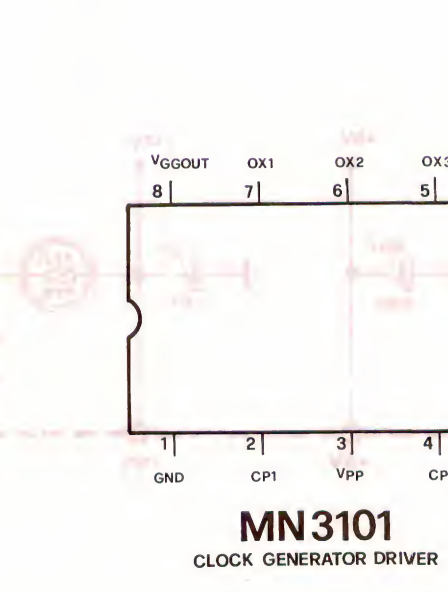
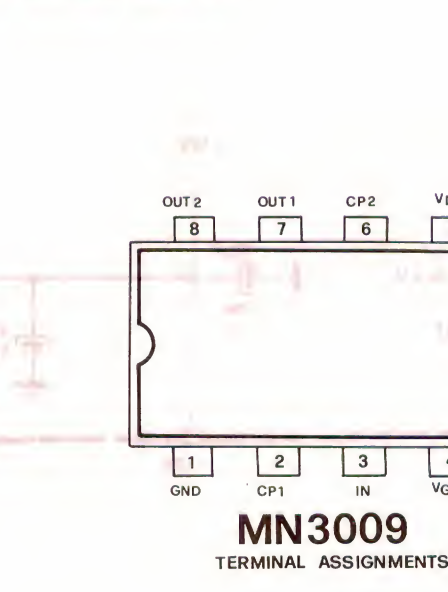
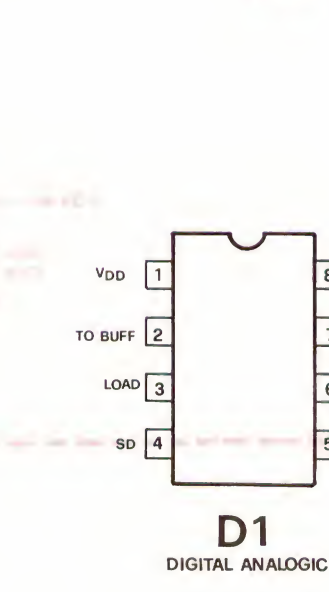
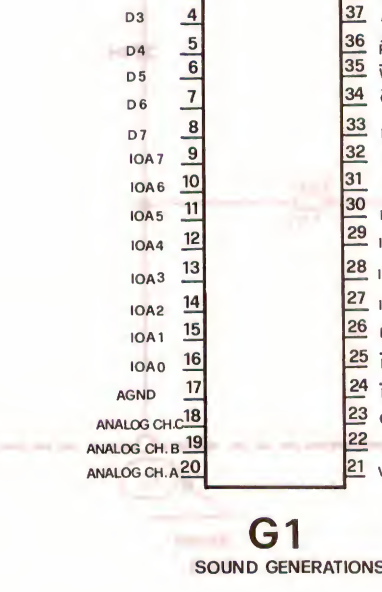
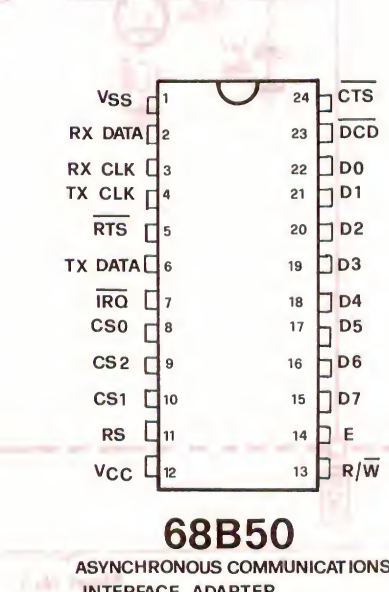
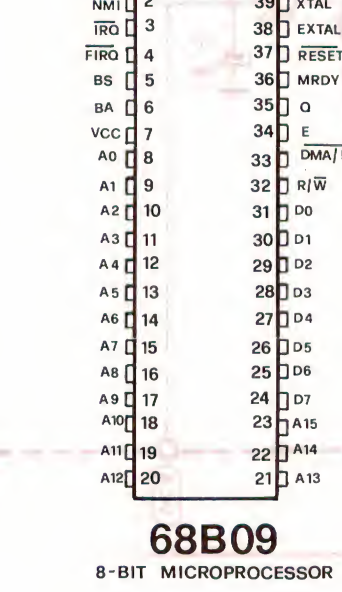
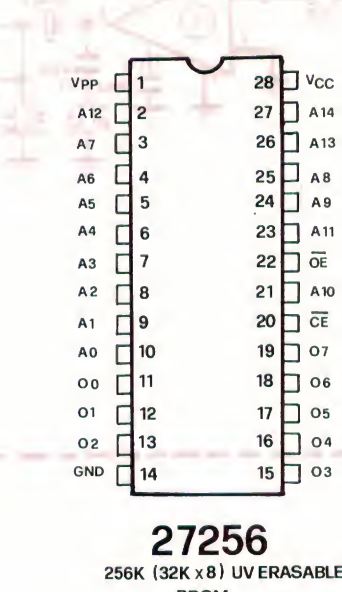
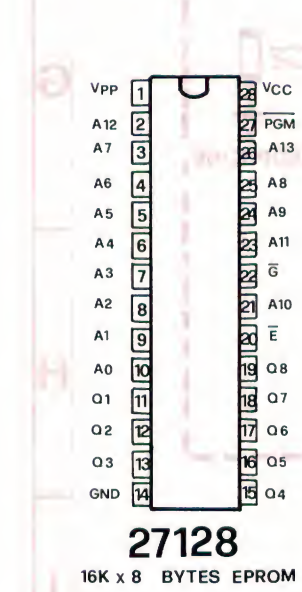
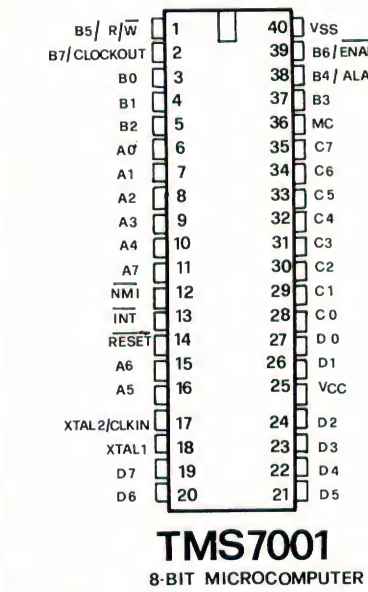
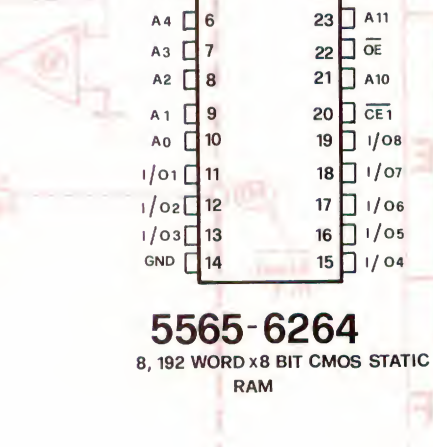
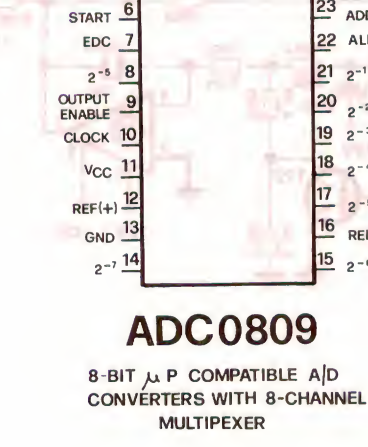
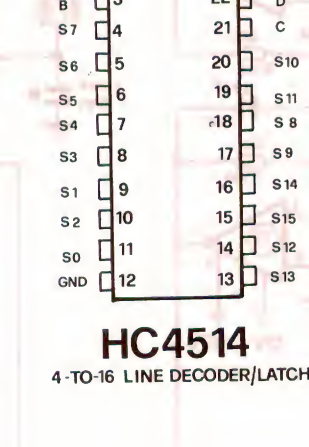
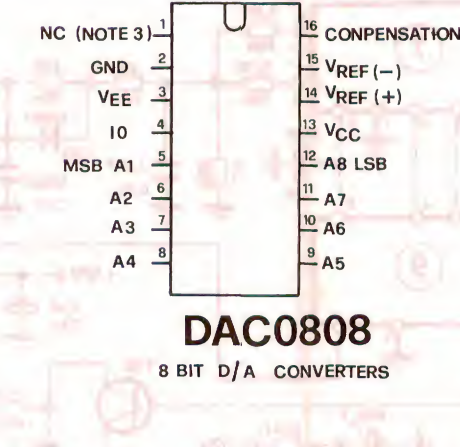
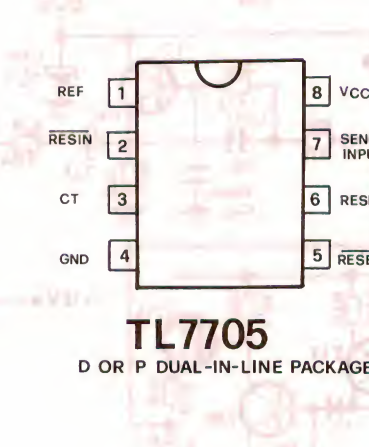
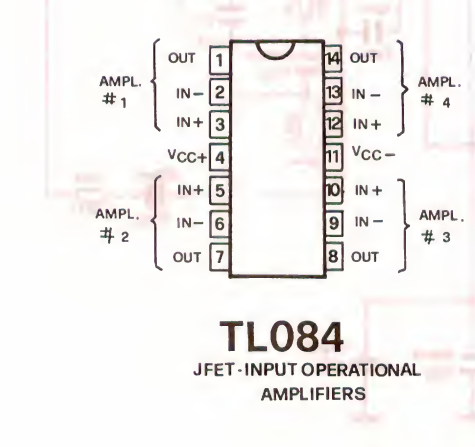
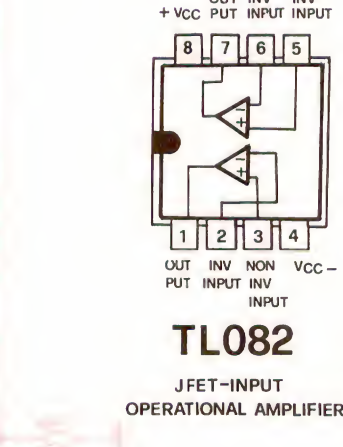
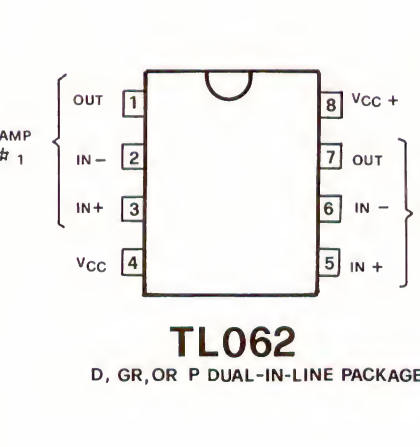
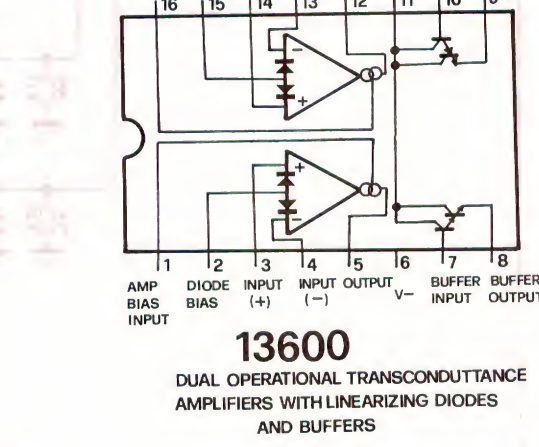
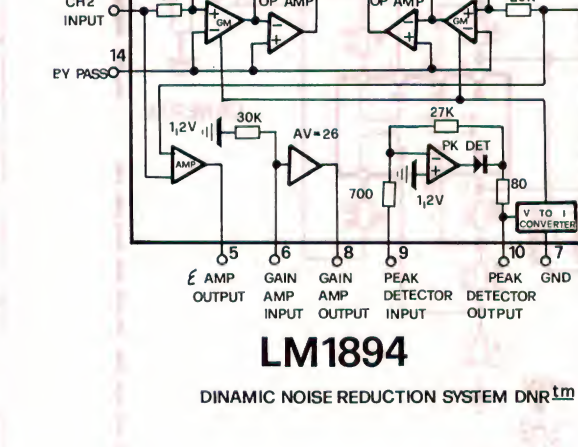
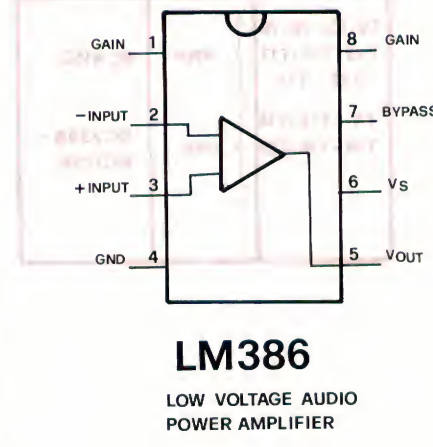
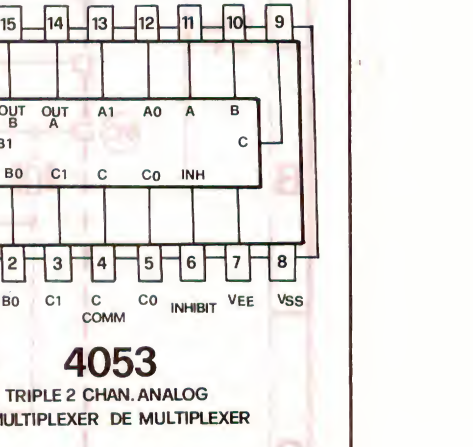
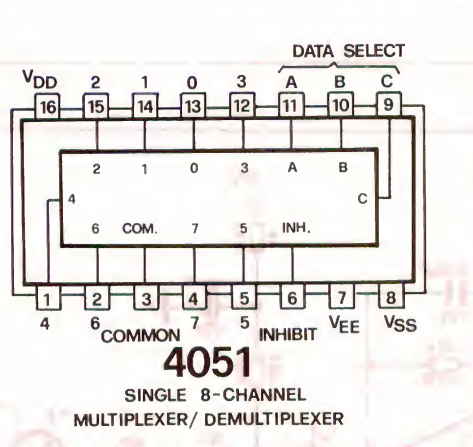
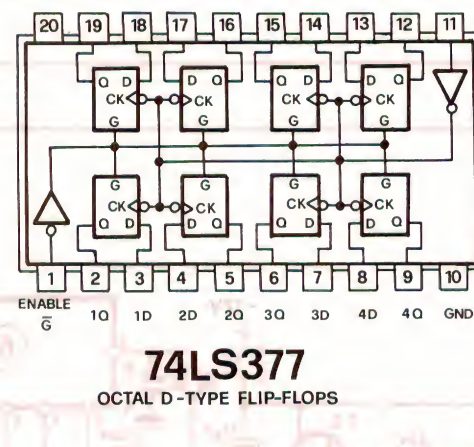
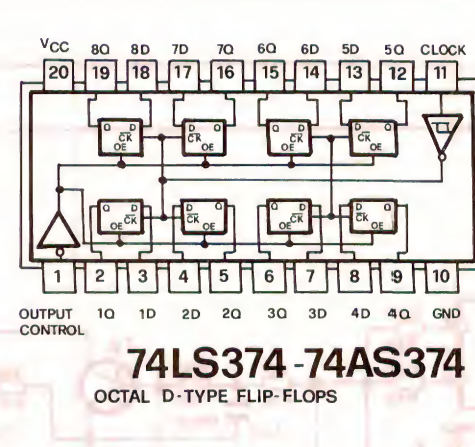
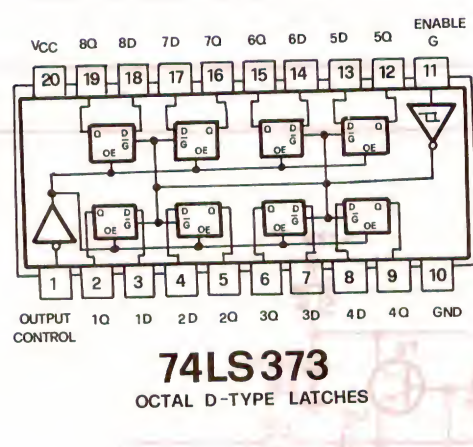
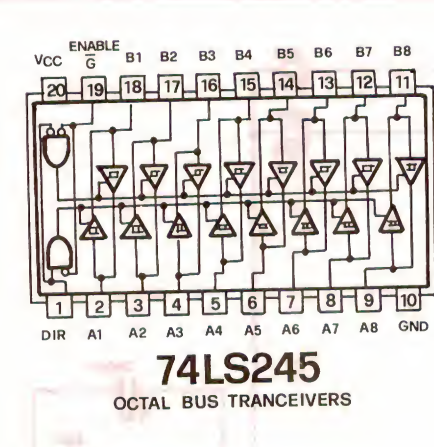
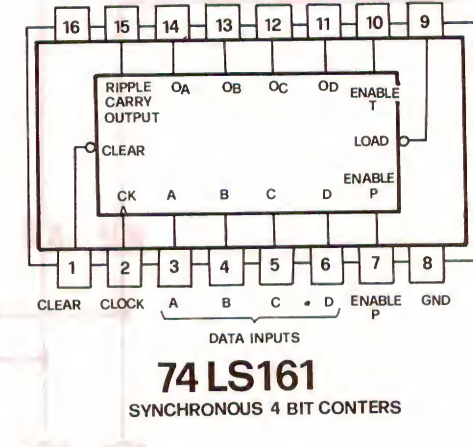
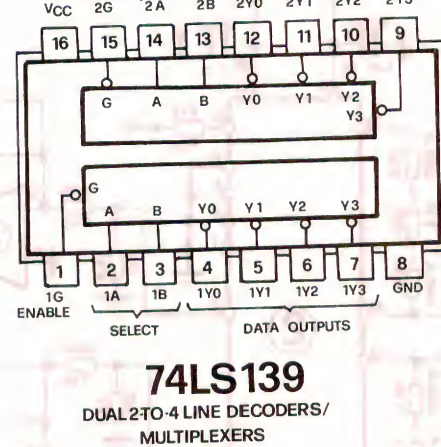
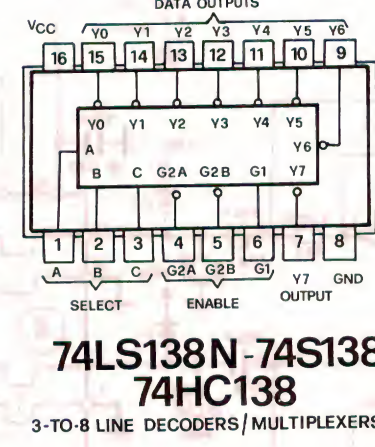
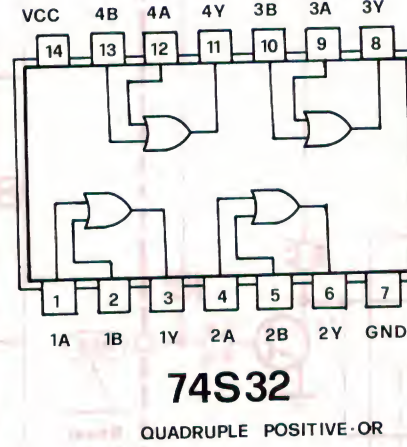
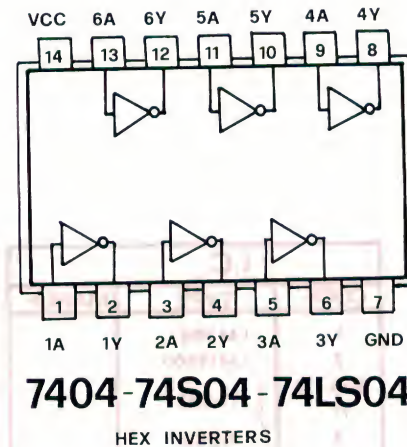




I. C.		
CODE	TYPE	MANUF.
1	27128	
2	5565-6264	
3	68B50	
4	68B09	
5	74LS161	
6	74S04	
7	74LS139	
8	74LS138	
9-10	4053	
11-13-15	G1	
19-22-25	TL084	
14-17-20		
24-26		
12-16-18		
21-23-27	D1	

CODE	TYPE	TRANS.
T1	NPN	BC173C

Model ER33
Sheet N° 4



410CST1707

I.C.		
CODE	TYPE	MANUF.
1	LM386	
2	LM13600	
3-5-10	TL082	
11	4053	
4	MN 3009	
6-7	MN 3101	
8-9	LM1894	
13		

CODE	TYPE	TRANS.
T2-T3-T6-T9	PNP	BC 415C
T13-T15-T17		
T19-T21		
T1-T12-T14	NPN	BC239B - BC173B
T16-T18-T22		